1600





RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/756,481D

DATE: 01/07/2003 TIME: 14:07:09

Input Set : A:\47506-sequence.txt

Output Set: N:\CRF4\01072003\I756481D.raw

```
3 <110> APPLICANT: MARCHIONNI, MARK
         JARPE, MICHAEL
         EBENDAL, TED
 7 <120> TITLE OF INVENTION: METHODS FOR TREATING NEUROLOGICAL INJURIES AND
         DISORDERS
10 <130> FILE REFERENCE: 47506(47843)
12 <140> CURRENT APPLICATION NUMBER: 09/756,481D
13 <141> CURRENT FILING DATE: 2001-01-08
15 <150> PRIOR APPLICATION NUMBER: PCT/US99/15106
16 <151> PRIOR FILING DATE: 1999-07-02
18 <150> PRIOR APPLICATION NUMBER: 60/091,791
19 <151> PRIOR FILING DATE: 1998-07-06
21 <160> NUMBER OF SEQ ID NOS: 4
23 <170> SOFTWARE: PatentIn Ver. 2.1
25 <210> SEO ID NO: 1
26 <211> LENGTH: 1387
27 <212> TYPE: DNA
28 <213> ORGANISM: Mus sp.
30 <220> FEATURE:
31 <221> NAME/KEY: CDS
32 <222> LOCATION: (218)..(1288)
34 <400> SEQUENCE: 1
35 cccttctcca gggactctgg ctgccagcag ctccgccttt cagatcaatt ctcgaccacc 60
37 caccttggga ctgccgccca gtcctgccct ctggatcagt ggggtccaga cacgccccct 120
39 ccaggacete aaageaceee egacetaagg teaceageee actggeeeea gaegeagtgg 180 .
41 gctccgctga ctctcttgga cacctcctgg gaggaaa atg ctc cct gtc tgc cat
42
                                            Met Leu Pro Val Cys His
43
                                                                      283
45 cgt ttt tgc gac cac ctc ctc ctc ctg ctc ttg ctg ccc tcg acg acc
46 Arg Phe Cys Asp His Leu Leu Leu Leu Leu Leu Pro Ser Thr Thr
                10
49 ctg gcc ccc gcg cca gca tcc atg ggc ccc gct gcc gcc ctg ctc cag
50 Leu Ala Pro Ala Pro Ala Ser Met Gly Pro Ala Ala Ala Leu Leu Gln
            25
                                30
53 gtt ctt ggg ctt ccc gaa gcg ccc cgg agc gtc ccc aca cac cga cct
54 Val Leu Gly Leu Pro Glu Ala Pro Arg Ser Val Pro Thr His Arg Pro
                            45
57 gtg cct cct gtc atg tgg cgc cta ttc cgt cgc cgt gac ccc cag gag
                                                                      427
58 Val Pro Pro Val Met Trp Arg Leu Phe Arg Arg Arg Asp Pro Gln Glu
59 55
                        60
                                            65
61 gcc aga gtg gga cgc cct ctg cgg cca tgc cac gtg gag gaa cta ggg
                                                                      475
62 Ala Arg Val Gly Arg Pro Leu Arg Pro Cys His Val Glu Glu Leu Gly
```

80

75

63

RAW SEQUENCE LISTING DATE: 01/07/2003 PATENT APPLICATION: US/09/756,481D TIME: 14:07:09

Input Set : A:\47506-sequence.txt

Output Set: N:\CRF4\01072003\1756481D.raw

| 65 gtc gcc gg 66 Val Ala Gl 67 | | | | | , , | - | | |
|---|-----------|-----------|----------|-----------|-----------|-----------|-------|----|
| 69 agg ccc gc 70 Arg Pro Al 71 10 | a Gln Pro | | | | | | | |
| 73 gtc gtc tt 74 Val Val Ph 75 120 | | | | | | | | |
| 77 gcg cgc tt 78 Ala Arg Le 79 135 | | | | | | | | |
| 81 tgg gag ct 82 Trp Glu Le 83 | | Ala Leu | | | | | | |
| 85 gag ctg ct 86 Glu Leu Le 87 | | | | | | | | |
| 89 cta ctg gg 90 Leu Leu Gl 91 18 | y Thr Ala | | | | | | | |
| 93 cgc ctg gc 94 Arg Leu Al 95 200 | | | | | | | | |
| 97 ctg gct ga 98 Leu Ala Gl 99 215 | | | | | | | | |
| 101 ccc ttg c 102 Pro Leu P 103 | | u Arg Arg | | | | | Gly | 5 |
| 105 cca gtg g 106 Pro Val G 107 | | | | g Leu Hi | | | | 03 |
| 109 gtg ggc t 110 Val Gly T 111 2 | | | | | | e Leu Ala | | 51 |
| 113 ttc tgc c 114 Phe Cys G 115 280 | | | a Leu Pr | | | | | 99 |
| 117 ggg ccg c 118 Gly Pro P 119 295 | | | | | g Ala Leu | | | 47 |
| 121 gct gct c 122 Ala Ala P 123 | | o Gly Ala | | | | | a Arg | 95 |
| 125 cta tca c 126 Leu Ser P 127 | | | | e Asp Ası | | | | 43 |
| 129 ctg cga c | | a gac ato | | | g tgt ggc | | 12 | 88 |

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/756,481D

DATE: 01/07/2003 TIME: 14:07:09

Input Set : A:\47506-sequence.txt

Output Set: N:\CRF4\01072003\I756481D.raw

| 130 131 | Leu | Arg | His 345 | Tyr | Glu | Asp | Met | Val 350 | Val | Asp | Glu | Cys | Gly 355 | Cys | Arg | | |
|------------|---|--------|------------|-------|--------|-----------|-------|------------|-------|-------|-------|-------|------------|-------|-------|-------|------|
| | tgag | caco | ca d | ggaca | accct | t to | caggo | gacco | 7 000 | caco | caa | aago | caggo | gac t | gttt | gttca | 1348 |
| | 133 tgaccaccog ggacaccett teagggaceg ceecacgeaa aageagggae tgtttgttea 1348 135 tgttttattg gtgacaaaaa gettaaaaca aatttgaet 1387 | | | | | | | | | | | | | | | | |
| | 138 <210> SEQ ID NO: 2 | | | | | | | | | | | | | | | | |
| | 39 <211> LENGTH: 357 | | | | | | | | | | | | | | | | |
| | 140 <212> TYPE: PRT | | | | | | | | | | | | | | | | |
| | <213 | | | | Mus | sp. | | | | | | | | | | | |
| | <400 | | | | | • | | | | | | | | | | | |
| | | | | | | His | Arq | Phe | Cys | Asp | His | Leu | Leu | Leu | Leu | Leu | |
| 145 | 1 | | | | 5 | | _ | | - | 10 | | | | | 15 | | |
| 147 | Leu | Leu | Pro | Ser | Thr | Thr | Leu | Ala | Pro | Ala | Pro | Ala | Ser | Met | Gly | Pro | |
| 148 | | | | 20 | | | | | 25 | | | | | 30 | _ | | |
| 150 | Ala | Ala | Ala | Leu | Leu | Gln | Val | Leu | Gly | Leu | Pro | Glu | Ala | Pro | Arg | Ser | |
| 151 | | | 35 | | | | | 40 | | | | | 45 | | | | |
| 153 | Val | Pro | Thr | His | Arg | Pro | Val | Pro | Pro | Val | Met | Trp | Arg | Leu | Phe | Arg | |
| 154 | | 50 | | | | | 55 | | | | | 60 | | | | | |
| 156 | Arg | Arg | Asp | Pro | Gln | Glu | Ala | Arg | Val | Gly | Arg | Pro | Leu | Arg | Pro | Cys | |
| 157 | 65 | | | | | 70 | | | | | 75 | | | | | 80 | |
| 159 | His | Val | Glu | Glu | Leu | Gly | Val | Ala | Gly | Asn | Ile | Val | Arg | His | Ile | Pro | |
| 160 | | | | | 85 | | | | | 90 | | | | | 95 | | |
| 162 | Asp | Ser | Gly | Leu | Ser | Ser | Arg | Pro | Ala | Gln | Pro | Ala | Arg | Thr | Ser | Gly | |
| 163 | | | | 100 | | | | | 105 | | | | | 110 | | | |
| 165 | Leu | Cys | | Glu | Trp | Thr | Val | Val | Phe | Asp | Leu | Ser | Asn | Val | Glu | Pro | |
| 166 | | | 115 | | | | | 120 | | | | | 125 | | | | |
| | Thr | | Arg | Pro | Thr | Arg | | Arg | Leu | Glu | Leu | | Leu | Glu | Ala | Glu | |
| 169 | | 130 | | | | | 135 | | _ | _ | | 140 | _ | | | _ | |
| | | Glu | Asp | Thr | Gly | _ | Trp | Glu | Leu | Ser | | Ala | Leu | Trp | Ala | | |
| | 145 | ~ 3 | | _ | ~1 | 150 | 6.1 | - | - | - | 155 | | m 1 | Б | ъ | 160 | |
| | Ala | GLu | Hıs | Pro | | Pro | GLu | Leu | Leu | | val | Pro | Ата | Pro | | GIA | |
| 175 | **- 1 | т | T | 7 | 165 | 70 | T | T | C3 | 170 | 71. | 17-7 | 7.1. | 71. | 175 | 7.1.0 | |
| | vaı | ьeu | ьeu | _ | Ата | Asp | Leu | Leu | | Tur | Ата | vai | Ald | 190 | ASII | Ala | |
| 178 | Com | v. l | Dwo | 180 | mh ∽ | 17 o 1 | 7 ~~ | T 011 | 185 | T 011 | Cor | T 011 | uic | | C1., | 7.1.5 | |
| 181 | ser | vaı | 195 | Суѕ | 1111 | val | Arg | Leu 200 | Ата | ьeu | ser | ьeu | 205 | FIO | дту | Ата | |
| | Thr | 7\1 a | | Cuc | Clv | Λκα | LOU | Ala | Glu | Δla | Sar | Len | | T.011 | Val | Thr | |
| 184 | 1117 | 210 | Ала | Cys | GTÄ | ALG | 215 | пта | GIU | пла | 261 | 220 | шеи | пец | Val | 1111 | |
| | T 011 | | Dro | Ara | Ι.Δ.1 | Cve | | Leu | Pro | Δra | T.211 | | Δrα | His | Thr | Glu | |
| | 225 | изр | 110 | Arg | пеи | 230 | 110 | пси | 110 | Arg | 235 | my | my | 11110 | 1111 | 240 | |
| | | Δra | Val | Glu | Val | | Pro | Val | Glv | Thr | | Ara | Thr | Ara | Ara | | |
| 190 | 110 | Arg | Val | Giu | 245 | СТУ | 110 | Val | Ory | 250 | Cys | nrg | 1111 | my | 255 | БСС | |
| | Hie | Val | Sar | Pha | | Glu | Val | Gly | Trn | | Ara | Trn | Val | Tle | | Pro | |
| 193 | 1113 | V U.I. | 501 | 260 | ,,,, y | O.L.U | · u _ | O ± y | 265 | 111.0 | 9 | 110 | | 270 | 111.4 | | |
| | Ara | Glv | Phe | | Д1а | Asn | Phe | Cys | | Glv | Thr | Cvs | Ala | | Pro | Glu | |
| 196 | 9 | C L y | 275 | u | 111 U | | | 280 | V-111 | ~-1 | | O y O | 285 | | | | |
| | Thr | Len | | Glv | Pro | Glv | Glv | Pro | Pro | Ala | Leu | Asn | | Ala | Val | Leu | |
| 199 | | 290 | 9 | ~± y | 110 | ~ <u></u> | 295 | | 0 | | ~~~ | 300 | | | | | |
| | | | Leu | Met | His | Ala | | Ala | Pro | Thr | Pro | | Ala | Glv | Ser | Pro | |
| | 305 | | | | | 310 | | | | | 315 | 1 | | 1 | | 320 | |
| | | | | | | | | | | | | | | | | | |

RAW SEQUENCE LISTING

229 Asn Met Val Val Glu Glu Cys Gly Cys

230 1

PATENT APPLICATION: US/09/756,481D

DATE: 01/07/2003 TIME: 14:07:09

Input Set : A:\47506-sequence.txt

Output Set: N:\CRF4\01072003\I756481D.raw

204 Cys Cys Val Pro Glu Arg Leu Ser Pro Ile Ser Val Leu Phe Phe Asp 325 330 207 Asn Ser Asp Asn Val Val Leu Arg His Tyr Glu Asp Met Val Val Asp 340 345 210 Glu Cys Gly Cys Arg 211 355 214 <210> SEQ ID NO: 3 215 <211> LENGTH: 27 216 <212> TYPE: DNA 217 <213> ORGANISM: Mus sp. 219 <400> SEQUENCE: 3 220 gcagccacac tcctccacca ccatgtt 27 223 <210> SEQ ID NO: 4. 224 <211> LENGTH: 9 225 <212> TYPE: PRT 226 <213> ORGANISM: Mus sp. 228 <400> SEQUENCE: 4

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/756,481D

DATE: 01/07/2003 TIME: 14:07:10

Input Set : A:\47506-sequence.txt
Output Set: N:\CRF4\01072003\I756481D.raw